



SEQUENCE LISTING

<110> Herron, Paul
Dyson, Paul J.

<120> Methods and materials for generating
genetic disruptions in bacterial cells

<130> 0380-P02960US1

<140> 10/632,398

<141> 2003-07-31

<150> 60/399,751

<151> 2002-07-31

<160> 13

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 1

ctgtctctta tacacatct

19

<210> 2

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 2

agatgtgtat aagagacag

19

<210> 3

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 3

ctgactctta tacacaagt

19

<210> 4

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 4

ctgtctcttg atcagatctt gatc 24

<210> 5
 <211> 109
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 5
 ccgggcagga taggtgaagt aggcccaccc gcgagcgggt gttccttctt cactgtccct 60
 tattcgcacc tggcgggtgct caacgggaat cctgctctgc gaggctggc 109

<210> 6
 <211> 47
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 6
 gatctgaatt cggatcctaa ttaattaatc tagaaaggag gtgatca 47

<210> 7
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 7
 tatgatcacc tcctttctag attaattaat taggatccga attca 45

<210> 8
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 8
 tatggacgga gctcggccgc ttaaggtacc gaattcc 37

<210> 9
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 9
 tcgaggaatt cggtaccta agcggccgag ctccgtcca 39

<210> 10
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 10
atgcgctcca tcaagaagag 20

<210> 11
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 11
acttgtgtat aagagtcag 19

<210> 12
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 12
gatcaagatc tgatcaagag acag 24

<210> 13
<211> 3442
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 13

ctgtctctta	tacacatctc	aaccatcatc	gatgaattcg	gacctaatt	aattaatcta	60
gaaaggaggt	gatcatatgg	tgagcaagg	cgaggagctg	ttcaccggg	tggtgccc	120
cctgggtcgag	ctggacggcg	acgtaaaccg	ccacaagtgc	agcgtgtccg	gcgagggcga	180
gggcatgcc	acctacggca	agctgaccct	gaagtgcac	tgcaccaccg	gcaagctgcc	240
cgtgccctgg	cccaccctcg	tgaccaccct	gacctacggc	gtgcagtgc	tcagccgcta	300
ccccgaccac	atgaagcagc	acgacttctt	caagtccgcc	atgcccgaag	gctacgtcca	360
ggagcgcacc	atcttcttca	aggacgacgg	caactacaag	acccgcgccg	aggtgaagtt	420
cgagggcgac	accctgggtga	accgcaccca	gctgaagggc	atcgacttca	aggaggacgg	480
caacatcctg	gggcacaagc	tgaggtacaa	ctacaacagc	cacaacgtct	atatcatggc	540
cgacaagcag	aagaacggca	tcaaggtgaa	cttcaagatc	cgccacaaca	tcgaggacgg	600
cagcgtgcag	ctcgccgacc	actaccagca	gaacaccccc	atcggcgacg	gccccgtgct	660
gctgcccgc	aaccactacc	tgagcaccga	gtccgcccctg	agcaaagacc	ccaacgagaa	720
gcgcgatcac	atgggtcctgc	tgaggttcgt	gaccgcccgc	gggatcactc	tcggcatgga	780
cgagctgtac	aagtaaagcg	gccgcttaag	gtaccgaatt	cgagggggat	ccggtgattg	840
attgagcaag	ctttatgctt	gtaaaccggt	ttgtgaaaaa	attttttaaa	taaaaaagg	900
gacctctagg	gtccccaatt	aattagtaat	ataatctatt	aaaggtcatt	caaaagggtca	960
tccaccggat	cagcttagta	aagccctcgc	tagattttaa	tgcggatggt	gcgattactt	1020
cgccaactat	tgcgataaca	agaaaaagcc	agcctttcat	gatatatctc	ccaatttgtg	1080
tagggcttat	tatgcacgct	taaaaataat	aaaagcagac	ttgacctgat	agtttggtg	1140
tgagcaatta	tgtgcttagt	gcatctaacc	cttgagttaa	gccgcgccgc	gaagcggcgt	1200
cggtctgaac	gaattgttag	acattatttg	ccgactacct	tggtgatctc	gcctttcacg	1260
tggtgcccc	gcaatcagcg	cgaccttgcc	cctccaacgt	catctcggtc	tccgctcatg	1320
agctcagcca	atcgactggc	gagcggcatc	gcattcttcg	catcccggcc	tctggcggat	1380
gcaggaagat	caacggatct	cggcccagtt	gacccagggc	tgtcgccaca	atgtcgcggg	1440
agcggatcaa	ccgagcaaag	gcatgaccga	ctggaccttc	cttctgaagg	ctcttctcct	1500
tgagccacct	gtccgccaag	gcaaagcgct	cacagcagtg	gtcattctcg	agataatcga	1560
cgcgtaccaa	cttgccatcc	tgaagaatgg	tgcagtgtct	cggcacccca	tagggaacct	1620
ttgccatcaa	ctcggaaga	tgcagcgtcg	tggtggcatc	gtgtcccacg	ccgaggagaa	1680

gtacctgccc	atcgagttca	tggacacggg	cgaccgggct	tgcaggcgag	tgaggtggca	1740
ggggcaatgg	atcagagatg	atctgctctg	cctgtggccc	cgctgccgca	aaggcaaagt	1800
gatgggcgct	gcgctttaca	tttggcaggc	gccagaatgt	gtcagagaca	actccaaggt	1860
ccggtgtaac	gggcgacgtg	gcaggatcga	acggctcgtc	gtccagacct	gaccacgagg	1920
gcatgacgag	cgtccctccc	ggacccagcg	cagcacgcag	ggcctcgatc	agtccaagtg	1980
gcccattctt	gaggggccc	acgctacgga	aggagctgtg	gaccagcagc	acaccgccgg	2040
gggtaacccc	aagggttgaga	agctgaccga	tgagctcggc	ttttcgccat	tcgtattgca	2100
cgacattgca	ctccaccgct	gatgacatca	gtcgatcata	gcacgatcaa	cggcactggt	2160
gcaaatagtc	ggtgggtgata	aacttatcat	ccccttttgc	tgatggagct	gcacatgaac	2220
ccattcaaag	gccggcattt	tcagcgtgac	atcattctgt	gggccgtacg	ctggtactgc	2280
aaatacggca	tcagttaccg	tgagccggat	cagtgagggg	ttgcaactgc	gggtcaagga	2340
tctggatttc	gatcacggca	cgatcatcgt	gcgggagggc	aagggtcca	aggatcgggc	2400
cttgatgtta	cccgagagct	tggcaccag	cctgcgcgag	caggggaatt	gatccggtgg	2460
atgacctttt	gaatgacctt	taatagatta	tattactaat	taattgggga	ccctagaggt	2520
cccctttttt	attttaaaaa	ttttttcaca	aaacggttta	caagcataaa	gcttgctcaa	2580
tcaatcaccc	gatccccgac	ctgcaggctc	acttttccgc	tgcataaccc	tgcttcgggg	2640
tcattatagc	gatttttttc	gtatatccat	cctttttcgc	acgatataca	ggattttgcc	2700
aaagggttcg	tgtagacttt	ccttggtgta	tccaacggcg	tcagccgggc	aggataggtg	2760
aagtagggcc	acccgcgagc	gggtgttcct	tcttcactgt	cccttattcg	cacctggcgg	2820
tgctcaacgg	gaatcctgct	ctgcgaggct	ggccggctac	cgccggcgta	acagatgagg	2880
gcaagcggat	ggctgatgaa	accaagccaa	ccaggaaggg	cagcccacct	atcaagggtg	2940
actgccttcc	agacgaacga	agagcgattg	aggaaaaggc	ggcggcgggc	ggcatgagcc	3000
tgctcggccta	cctgctggcc	gtcggccagg	gctacaaaat	cacgggcgtc	gtggactatg	3060
agcacgtccg	cgagctggcc	cgcacatcat	gcgacctggg	ccgcctgggc	ggcctgctga	3120
aactctggct	caccgacgac	ccgcgcacgg	cgcggttcgg	tgatgccacg	atcctcgccc	3180
tgctggcgaa	gatcgaagag	aagcaggacg	agcttggtcaa	ggtcatgatg	ggcgtggtcc	3240
gcccgagggc	agagccatga	cttttttagc	cgctaaaacg	gccggggggg	gcgcgtgatt	3300
gccaagcacg	tcccatgcg	ctccatcaag	aagagcgact	tcgcggagct	ggtgaagtac	3360
atcaccgacg	agcaaggcaa	gaccgatccc	cggggacctg	caggcatgca	agcttcaggg	3420
ttgagatgtg	tataagagac	ag				3442